

AMENDMENTS TO THE CLAIMS

Claims 1-30 (cancelled)

Claim 31 (currently amended): A method for affecting promoting the survival or function of dopaminergic neurons comprising administering a polynucleotide consisting of a polynucleotide sequence encoding a truncated glial cell line-derived neurotrophic factor (GDNF) protein product consisting of an amino acid sequence

$$X - \{Cys^{41} - Cys^{133}\} - Y$$

wherein

 $[\mathrm{Cys}^{41}\mathrm{-Cys}^{133}]$ consists of Cys^{41} through Cys^{133} of SEQ ID NO 2;

Y represents the carboxy terminal group of Cys^{133} , a carboxy-terminus amino acid residue of Ile^{134} , or a substituted amino acid residue, and

X represents a methionylated or nonmethionylated amine group of Cys^{41} or amino-terminus amino acid residue(s) selected from the group:

	G			RECEI	VED
	RG			AUG Ú√4	2003
	NRG			AUG V -	2003
	KNRG	(SEQ ID NO	:3) -	TECH CENTER	1600/2900
	GKNRG	(SEQ ID NO	:4)	LON OPINI	
	RGKNRG	(SEQ ID NO	:5)		
	QRGKNRG	(SEQ ID NO	:6)		
	GQRGKNRG	(SEQ ID NO	:7)		
	RGQRGKNRG	(SEQ ID NO	:8)		
	RRGQRGKNRG	(SEQ ID NO	:9)		
G	RRGQRGKNRG	(SEQ ID NO	:10)		
KG	RRGQRGKNRG	(SEQ ID NO	:11)		
GKG	RRGQRGKNRG	(SEQ ID NO	:12)		
RGKG	RRGQRGKNRG	(SEQ ID NO	:13)		
SRGKG	RRGQRGKNRG	(SEQ ID NO	:14)		
NSRGKG	RRGQRGKNRG	(SEQ ID NO	:15)		
ENSRGKG	RRGQRGKNRG	(SEQ ID NO	:16)		
PENSRGKG	RRGQRGKNRG	(SEQ ID NO	17)		
SPENSRGKG	RRGQRGKNRG	(SEQ ID NO	:51)		
NPENSRGKG	RRGQRGKNRG	(SEQ ID NO	:18)		•
ANPENSRGKG	RRGQRGKNRG	(SEQ ID NO	:19)		
ANPENSRGKG	RRGQRGKNRG	(SEQ ID NO	:20)		

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ANPENSRGKG

AA

RRGQRGKNRG (SEQ ID NO:21)

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(SEQ ID NO:22)
                  AAA
                      ANPENSRGKG
                                   RRGQRGKNRG
                 QAAA
                       ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:23)
                RQAAA
                       ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:24)
               NRQAAA
                       ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:25)
                       ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:26)
              RNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:27)
             ERNRQAAA
            RERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:28)
           RRERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEO ID NO:29)
                                               (SEQ ID NO:30)
          RRERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
        Ρ
                                               (SEQ ID NO:31)
          RRERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
      LP
                                               (SEQ ID NO:32)
                      ANPENSRGKG
                                   RRGQRGKNRG
     VLP
           RRERNRQAAA
                                               (SEQ ID NO:33)
    AVLP
          RRERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
          RRERNRQAAA ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:34)
   MAVLP
          RRERNRQAAA ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:35)
  QMAVLP
          RRERNRQAAA ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:36)
 KQMAVLP
 DKQMAVLP
          RRERNRQAAA
                      ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:37) and
          RRERNRQAAA ANPENSRGKG
                                   RRGQRGKNRG
                                               (SEQ ID NO:38)
PDKQMAVLP
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or a substitution or deletion variant of X, wherein said variant is in excess of 70% identical to an amino acid sequence of X as set forth above when four gaps in a length of 100 amino acids may be introduced to assist in that alignment, to provide *in vivo* production of said truncated GDNF protein.

Claims 32-44 (cancelled)

Claim 45 (currently amended): A method according to Claim 31 or 32, wherein X is selected from the group consisting of SEQ ID NO: 3, 7, 8, 14, $17_{\underline{.}}$ and 18 and 18.

Claim 46 (previously presented): A method according to Claim 31 or 32, wherein X is G, RG or NRG.

Claim 47 (previously presented). A method according to Claim 31 or 32, wherein said GDNF protein product has the amino acid sequence of SEQ ID NO:42.

Claim 48 (previously presented): A method according to Claim 31 or 32, wherein said GDNF protein product has the amino acid sequence of SEQ ID NO:44.

Claim 49 (previously presented): A method according to Claim 31 or 32, wherein said GDNF protein product has the amino acid sequence of SEQ ID NO:46.

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